

**REMARKS**

Claim Changes

Claim 1 has been cancelled without prejudice or disclaimer.

Claims 2-5 have been amended to incorporate proper dependency to Claim 6 in light of currently cancelled Claim 1.

Claims 6 and 17 are amended to more clearly recite the claimed invention. Support for the changes can be found in FIG. 1 and FIG. 2 and the accompanying description on page 2 paragraph [0017] to page 3 paragraph [0049] of the specification as filed. Thus, no new matter is added.

Claim 13-16 are amended to be consistent with claim 6 as amended.

No amendment made is related to the statutory requirements of patentability unless expressly stated herein. No amendment is made for the purpose of narrowing the scope of any claim, unless Applicant had argued herein that such amendment is made to distinguish over a particular reference or combination of references. Any remarks made herein with respect to a given claim or amendment is intended only in the context of that specific claim or amendment, and should not be applied to other claims, amendments, or aspects of Applicant's invention.

Rejection of claims 6-16 under 35 U.S.C. § 112, second paragraph

The Office Action rejected claims 6-16 under 35 U.S.C. §112, second paragraph. Applicant submits that claims 6-16 as amended overcomes this rejection. Accordingly, Applicant respectfully requests the rejection be withdrawn.

Rejection of claims 1-31 under 35 U.S.C. §101

Claims 1-31 are rejected under 35 U.S.C. § 101. Independent claim 1 has been cancelled and independent claims 6 and 17 have been amended to produce a useful, concrete, and tangible result. The amendments are believed to be within the spirit of the amendments suggested by the Office Action. Accordingly, Applicant respectfully requests the rejection be withdrawn.

Rejection of claims 1, 3, and 5 under 35 U.S.C. § 102(b) as being anticipated by Horng et al. in an IEEE article entitled “The Design of Low Complexity Linear-Phase FIR Filter banks Using Powers-of-Two Coefficients with an Application to Subband Image Coding,” Vol.1, No. 4, December 1991.

Applicant has cancelled independent claim 1 without prejudice or disclaimer. Dependent claims 3 and 5 have been amended to incorporate proper dependency in light of currently cancelled Claim 1. Dependent claims 3 and 5 now depend from, and include all the limitations of independent claim 6. The cited reference fails to teach or suggest that which is claimed by Applicant’s invention, as amended. Therefore, Applicant respectfully requests reconsideration of dependent claims 3 and 5, and requests the withdrawal of the rejection.

Rejection of Claims 2 and 4 under 35 U.S.C. § 103(a) as being unpatentable over Horng, in view of Hartley (Optimization of Canonic Signed Digit Multipliers for Filter Design, Circuits and Systems, 1991, pages 1992-1995, vol. 4)

Dependent claims 2 and 4 have been amended to incorporate proper dependency in light of currently cancelled Claim 1. Dependent claims 2 and 4 now depend from, and include all the limitations of independent claim 6. The cited references taken individually or combined fail to teach or suggest that which claimed by Applicant’s invention, as amended. Therefore, Applicant respectfully requests reconsideration of dependent claims 2 and 4, and requests the withdrawal of the rejection.

Conclusion

Applicant respectfully requests that a timely Notice of Allowance be issued in this case. Such action is earnestly solicited by the Applicant. Should the Examiner have any questions, comments, or suggestions, the Examiner is invited to contact the Applicant's attorney or agent at the telephone number indicated below.

Please charge any fees that may be due to Deposit Account 502117, Motorola, Inc.

Respectfully submitted,

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